# FIGURE 1A

#### CHIR 12.12 light chain:

leader:

**MALPAQLIGLIMLWV8G95G** 

variable

DIVMTQSPLSLTVTPGEPASISCRSSQSLLYSNGYNYLDWYLQKPGQSPQVLISLGS NRASGVPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQARQTPFTFGFGTKVDIR

constant:

rtvaapbvpifppbdeqlkbgtabvvcllnnfypreakvqwkvdnalqegnbqebvt eqdbkdstyblbstltlskadyekhkvyacevthqglbbpvtkbfnrgec

## FIGURE 1B

### CHIR-12.12 heavy chain:

leader:

MEFGLEWVFLVAILRGVQC

variable:

QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISYEESH RYHADSVKGRFTISRDNSKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQGT LVTV88

#### constant:

ASTKGPSVPPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWMSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVMHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFMWYVDGVEVHNAK TKPRESQYMSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

### alternative constant region:

ABTKGP8VFFLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGP8VFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYMSTYRVVSVLTVLHQDWLNGKEYKCKVSMKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPHNNYKTTPFVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK 2/9

## **FIGURE 2A**

DNA sequence of light chain of CHIR-12.12:

ordoduadresocetresdacitatedenceRresessadacitessessadagatatra3, ordoduadresocetresdacerradacitescadacitessadagatatra3, ordoduadresocetresdacitescadacitessadacitessadacites de confermente confermente

#### FIGURE 2B

DNA sequence of heavy chain of CHIR-12.12 (including infrons):

5'aiggagiligggcigagctgggttttccttgttgciatiliaagaggigiocagtgtcaggtgcagttgglggagtclggggg uggegiggtoongoetgggaggteeolgagaeloleetgtgeageoletggatteacetteaglagelatggealgeaetgg giccgccaggctccaggcaaggggctggagtggcagttatatcatatgaggaaaglaalagalaccatgcagactc cgignagggccgaticaccatctcoagagacaattooaagatoaogotgtatctgoaaaiguacagccicagaactgagga cacgcotgtgtattactgtgogagagalglggglalagcagoacotgggcotgaotaclgglgcagggaaccclgglca ccylclcctcageaagraccaagggcccarccytctrccccctggcgcccgctagcaagagcacctctyyggygcacagc Eurocigggetgeetgeteaaggactaelteeegamooggigaoggtgtogtggaactoaggogocigaeeageggo grgoacacottocoggotgtoctacaglocicuggucictactcoctcagcagogtggtgaccylyccolccugcagcitgg BracceaBacctacatetBeaacRifasicacaaGccaaGcaacacaaggtgBacaagaaRifagfBagagGccaG cacagggaggagggtgtctgctgtgaagcoaggctoagogotootgcctggaogoatocoggctalgoagtcccagtoo agggoagcaaggoaggoocogiciyoolottoaocoggaggoototgoccyooccaclcaigclcagggagagggtett ctRRcitiffccccaddcictoddca66cacaddciaRRfRccccfaacccaddccctdcacaaaagaddcarkRfRcfR ggolongnoctgoonngngcoatutocgggaggaccetgocootgacetaaggccaccooнниggoonnactotocact coordagotogysoacolicicicciccagattccagrasceccaatettciciclgcagagcccaaatettgtgscaasac reneacatgeceaecylycecugglaagecageceaggectegeceteageleaaggegggacaggtgecetagagta geotgeateengggaeaggeeeengeegggigetgaeaegteeaceteeateleiteeleageaeetgaacteetggggg guccgioagietteetotteecceaaaacceaaggacacceteatgateteeeggacecetgaggicaeatgegtggtggt RRacRithatecactagatecctagateraticarcitatratical and a second contraction of the second contractio aggagiaoungi konnggiciocononnageocteccayececenegagaanaecatetecanagecanayyi kygae ccgigggglgcgagggcacatggacagaggccggclcggcccaccctctgcctgagaglgaccgciglaccaacct ctgreectaeagggeagecoccaegagaaccaegggtacaccctgcccceatcccgggaggagatgaccaagaaccagg readcetBucctBectBacasaRRerrerareceadcBacateBecBtBRaRtRRRadaGesstEBBCaBccRBaRas canctacaaguccaegectecegtgetggactecgaeggotecttoltectetatageaageteaecgtggaeaagageag Rightonfordeddesoftenterefferentiaridesoftenteretreseferentereferenteretreseferenteretr Ricicchediassitas,

3/9

### FIGURE 3A

### CHIR-5.9 light chain;

leaders

Mallaqligliniwvpg88g

variable:

AIVMTQPPLSSPVTLGQPASISCRSSQSLVHSDGNTYLNWLQQRFGQPPRLLIYKFF RRLSGVPDRFSGSGAGTDFTLKISRVBAEDVGVYYCMQVTQFPHTFGQGTRLSIK

constant:

rtvaapavfifppadeqlkagtaavvcllnnfypreakvqwkvdnalqagnaqeavt eqdekdstyalastltlekadyekhkvyacevthqqlsabvtkafnrgec

#### FIGURE 3B

#### CHIR-5.9 heavy chain:

leader:

**ADVEQUITALILATEDM** 

variable:

EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARGTAAGRDYYYYYGMDV WGQGTTVTVSS

constant:

ASTROPSVPPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTROPSVPPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTPPAVL QBSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVPLPPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

#### FIGURE 4A

#### Coding sequence for short isoform of human CD40:

- 1 alugitogio igcotolgoa gigogiooto iggggetget igotgacego igiocatoon
- 61 gaaccacca etgeatgeag agaaaaacag tacctaataa acagteagig etgiletity
- 121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcctt
- 181 cottgoggtg anagogaatt coingacaco tggaacagag agacacactg ccaccagcac
- 341 analyceded accesseet addicted decadeada addicacole afanacafae
- 301 accatctgca cetgtgaaga aggetggeac tglacgaglg aggeolgtga gagolgtgte
- 361 otgcaccycl catyotcycc oggottiggg gtcaagcaga ttgctacagg ggttictgat
- 421 accatetgey agecetyeec agicyyctic liciccaalg igicatetge megaaaaa
- 481 tgtcaccett ggacaaggie eccaggaicy gelgagagee etgglggtga tecceateat
- 541 ottogggato otgittigoon tootottggt gotggtotti atcananagg iggoonagua
- 601 gccaaccaat aa

#### FIGURE 4B

#### Encoded short isoform of human CD40:

- I myripiqovi wgolitavhp epptacrokq ylinaqocal oqpgqkivad cteffeteci
- 61 pegeselldt warethehel kycdpnigir vagkgtsetd tieteegwh etseuesev
- 121 Ihrscapgfg vkqiatgvad ticepepvgf fanvasafek chpwtrapga acapggdphh
- 181 irdpvchplg aglyqkggqe anq

#### FIGURE 4C

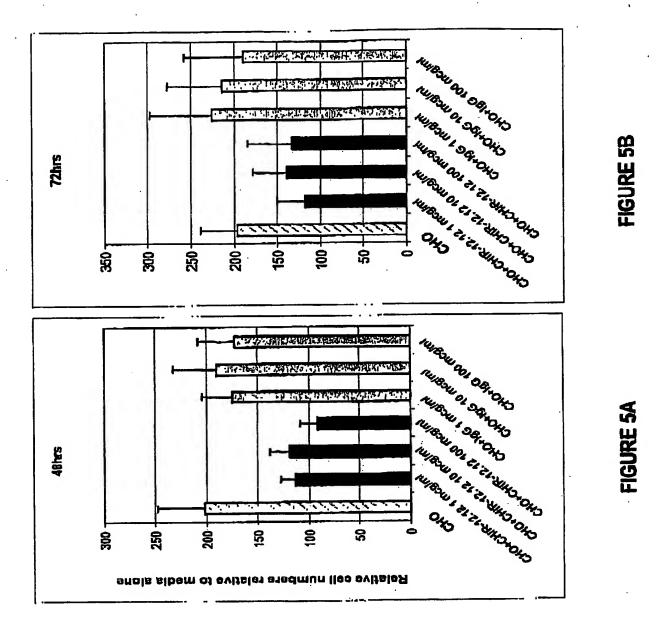
#### Coding sequence for long isoform of human CD40:

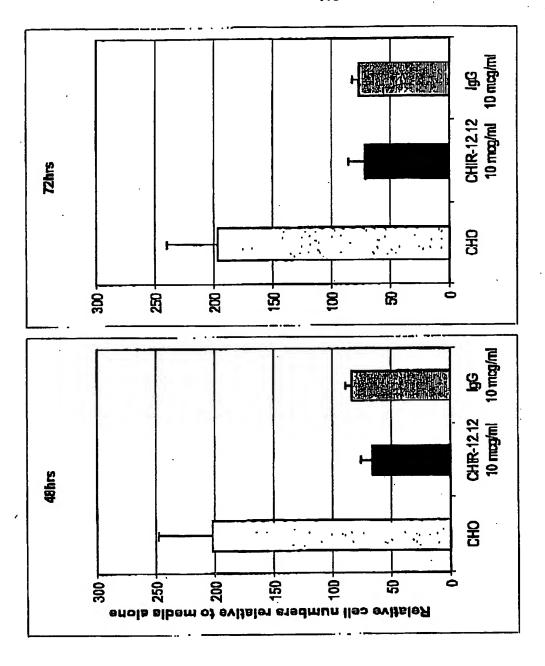
- 1 atggitegie tgeetetgea gigegteete tggggetget tgetgaeege tgteeateea
- 61 ganceaccon etgentgeng agananaeag tacetantan nengtengtg etgttelltg
- 121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcclt
- 181 cettgeggtg aaagegaatt cetagacace tggaacagug agucacactg ceaceageac
- 241 munimolycy accomance agggettogg grongenga agggenecte agamacagae
- 301 accatetgea cetgigaaga aggetggeae tgtacgagtg aggeelgtga gagelgigie
- 361 ctgcaccgct catgctcgcc cggclltggg gloaagcaga ttgctacagg ggtttctgat
- 421 acoatotgog agocotgoco agtoggotto liciconalg igicalelgo lticganana
- 481 tgteaccett ggacaagetg tgagaccaaa gacetggttg tgeaacagge aggeacaaac
- 541 augacigate tigicigies toccoageat oggotgagas cootegiest gatoccoalo
- 601 alottoggga lcolgitige catocicity gigetygtot thatcanna ggtggccnag
- 661 magecaacea alaaggeeee ceaceceaag caggaacece aggagateaa titteeegae
- 721 gatetteetg geteeaacae tgetgeteea gtgeaggaga eittacatgg atgeeaaceg
- 781 gtoacccagg aggatggoaa agagagtego alcteagtge aggagagaoa giga

### FIGURE 4D

#### Encoded long isoform of human CD40:

- 1 myrlplqcvl wgclltavhp epptacreką ylinsqccsl capgaklysd otefletecl
- 61 pegesefldt wnrethehqh kycdpnlylr vqqkgiseld ticiceegwh ctscacescv
- 121 lhrscspgfg vkqiatgvsd ticepcpvgf fsnvssafek chpwtscetk dlvvqqagtn
- 181 ktdvvogpqd riralvvipi ifgilfaill vlvlikkvak kptnkaphpk qepqeinfpd
- 241 dipgentaap vqetihgcqp vtqedgkesr isvqerq





FIGUR

GURE 6A

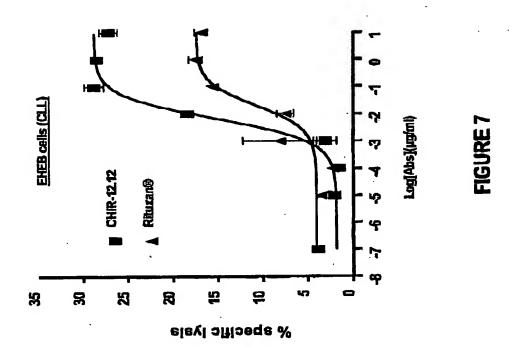


FIGURE 8

